HYGIENETECH
Hygiene Technologies International, Inc.

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Torrance, California 90503-1643
(310) 370-8370
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www.hygienetech.com

August 10, 2012

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21207001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
July 2012 Random Sampling

Dear Mr. Gau:

On July 2, 13, 23, and 31, 2012, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving twenty two randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

As presented in Table 21207001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Bipolaris/Drechslera* group, *Botrytis*, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species*, Epicoccum*, rusts, smuts, *Stachybotrys*, and/or *Torula.* In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Alternaria*, ascospores, basidiospores, *Cladosporium,* colorless spores typical of *Penicillium*/*Aspergillus* species, other brown, rusts, and/or smuts. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall data recorded outdoors. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

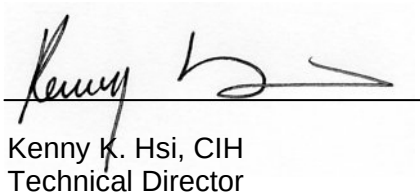
Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations

indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Kenny K. Hsi, CIH
Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21207001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM01OUT**	**21207001-1 TM02**	**21207001-1 TM03**	**21207001-1 TM04**
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet north of building; approximately five feet above ground/Normal outdoor activities	1st Floor; Low-Rise Elevator Lobby; approximately five feet above floor/Normal office activities	4th Floor; Column N18 area; Cubicle 33; about center; approximately five feet above floor/Normal office activities	6th Floor; Column K21 area; Cubicle 55; about center; approximately five feet above floor/Normal office activities
DATE	07/02/12	07/02/12	07/02/12	07/02/12
START/STOP	11:08:00/11:13:00	11:15:00/11:20:00	11:24:00/11:29:00	11:34:00/11:39:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	160			
Arthrinium				
Ascospores				
Basidiospores	370		53	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	13			
Cladosporium	2,600		53	53
Curvularia				
Epicoccum	13			
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	850			
Pithomyces				
Rusts	27			
Smuts (Periconia, Myxomycetes)	720			27
Stachybotrys				
Torula	13			
Ulocladium				
Zygomycetes				
Hyphal fragments	40	<13	<13	<13
Background debris*	3+	3+	3+	3+
TOTAL**	4,800	<13	110	130

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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450 N STREET
SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM05**	**21207001-1 TM06**	**21207001-1 TM07**	**21207001-1 TM08**
SAMPLING LOCATION/ACTIVITIES	8th Floor; area between Column M18 and L18; Cubicle 97; about center; approximately five feet above floor/Normal office activities	9th Floor; Column K20 area; Cubicle 66; about center; approximately five feet above floor/Normal office activities	18th Floor; Column K22 area; Cubicle 49.01; approximately five feet above floor/Normal office activities	20th Floor; Column L22 area; about 20 feet northwest of Column L22; approximately five feet above floor/Normal office activities
DATE	07/02/12	07/02/12	07/02/12	07/02/12
START/STOP	11:44:00/11:49:00	11:52:00/11:57:00	12:01:00/12:06:00	12:13:00/12:18:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria				
Arthrinium				
Ascospores				
Basidiospores		53	53	53
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium				
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types	110			53
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		27		13
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	110	93	53	80

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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450 N STREET
SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM09OUT**	**21207001-1 TM10**	**21207001-1 TM11**	**21207001-1 TM12**
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 10 feet east of building; approximately five feet above ground/Normal outdoor activities	3rd Floor; Conference Room 325; about center; approximately five feet above floor/Normal office activities	5th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	7th Floor; northern hallway adjacent to Break Room 707; approximately five feet above floor/Normal office activities
DATE	07/13/12	07/13/12	07/13/12	07/13/12
START/STOP	16:06:00/16:11:00	16:17:00/16:22:00	16:25:00/16:30:00	16:31:00/16:36:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	27			
Arthrinium				
Ascospores	110			
Basidiospores	750		53	
Bipolaris/Drechslera group	13			
Botrytis	27			
Chaetomium	27			
Cladosporium	1,200	160		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	110			
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	290		27	
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	110	<13	<13	<13
Background debris*	3+	2+	3+	2+
TOTAL**	2,600	160	80	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM13**	**21207001-1 TM14**	**21207001-1 TM15OUT**	**21207001-1 TM16**
SAMPLING LOCATION/ACTIVITIES	11th Floor; Quiet Room 1102; about center; approximately five feet above floor/Normal office activities	22nd Floor; Room 2225; about center; approximately five feet above floor/Normal office activities	Outdoors; about 10 feet west of building; approximately five feet above ground/Normal outdoor activities	10th Floor; Conference Room 1002; about center; approximately five feet above floor/Normal office activities
DATE	07/13/12	07/13/12	07/23/12	07/23/12
START/STOP	16:38:00/16:43:00	16:46:00/16:51:00	14:46:00/04:51:00	15:16:00/15:21:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			27	13
Arthrinium				
Ascospores			110	
Basidiospores		53	430	53
Bipolaris/Drechslera group			13	
Botrytis				
Chaetomium				
Cladosporium			1,800	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types			530	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	13		360	110
Stachybotrys				
Torula			110	
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	93	<13
Background debris*	3+	2+	2+	2+
TOTAL**	13	53	3,400	170

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM17**	**21207001-1 TM18**	**21207001-1 TM19**	**21207001-1 TM20**
SAMPLING LOCATION/ACTIVITIES	14th Floor; Copy Room 1405; about center; approximately five feet above floor/Normal office activities	16th Floor; northern hallway; about center; approximately five feet above floor/Normal office activities	17th Floor; Break Room 1710; about center; approximately five feet above floor/Normal office activities	24th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	07/23/12	07/23/12	07/23/12	07/23/12
START/STOP	15:26:00/15:31:00	15:35:00/15:40:00	15:43:00/15:48:00	15:50:00/15:55:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	
Arthrinium				
Ascospores	53			
Basidiospores		53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			53	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		80	170	27
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	13	<13
Background debris*	1+	2+	2+	1+
TOTAL**	53	130	240	80

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SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM21OUT**	**21207001-1 TM22**	**21207001-1 TM23**	**21207001-1 TM24**
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities s	2nd Floor; Column N19 area; about 10 feet southwest of Column N19; approximately five feet above floor/Normal office activities	15th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	19th Floor; Break room 1905; about center; approximately five feet above floor/Normal office activities
DATE	07/31/12	07/31/12	07/31/12	07/31/12
START/STOP	13:27:00/13:32:00	13:38:00/13:43:00	13:48:00/13:53:00	13:55:00/14:00:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	67			
Arthrinium				
Ascospores	210			
Basidiospores	370	110		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	230			
Cladosporium	2,800		53	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types	320			
Pithomyces				
Rusts	13			
Smuts (Periconia, Myxomycetes)	310	130	27	27
Stachybotrys	13			
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	230	<13	27	<13
Background debris*	3+	2+	2+	2+
TOTAL**	4,300	240	80	80

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
JULY 2 ,13, 23, AND 31, 2012

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21207001-1 TM25**	**21207001-1 TM26**		
SAMPLING LOCATION/ACTIVITIES	21st Floor; southern hallway at eastern end; about center; approximately five feet above floor/Normal office activities	23rd Floor; Room 2340; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank.	This column intentionally left blank.
DATE	07/31/12	07/31/12		
START/STOP	14:03:00/14:08:00	14:12:00/14:17:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria				
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				
Penicillium/Aspergillus types				
Pithomyces		13		
Rusts	13			
Smuts (Periconia, Myxomycetes)	40			
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13		
Background debris*	2+	2+		
TOTAL**	53	67		

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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EMLab P&K
A TestAmerica Company

Report for:

Mr. Larry Sandhu, Mr. Ken Tse
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21207001-1; Random Sampling
EML ID: 941320

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 07-05-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

Document Number: 200091 - Revision Number: 5

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Larry Sandhu, Mr. Ken Tse
Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1 TM01OUT		21207001-1 TM02		21207001-1 TM03		21207001-1 TM04	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4194875-1		4194876-1		4194877-1		4194878-1	
Analysis Date:	07/05/2012		07/05/2012		07/05/2012		07/05/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	3	160						
Basidiospores	7	370			1	53	1	53
Chaetomium	1	13						
Cladosporium	49	2,600			1	53	1	53
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	16	850						
Pithomyces								
Rusts	2	27						
Smuts, Periconia, Myxomycetes	54	720					2	27
Stachybotrys								
Stemphylium								
Torula	1	13						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		3+		3+		3+	
Hyphal fragments/m3	40		< 13		< 13		< 13	
Pollen/m3	13		13		< 13		13	
Skin cells (1-4+)	< 1+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		4,800		< 13		110		130

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Larry Sandhu, Mr. Ken Tse
Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1 TM05		21207001-1 TM06		21207001-1 TM07		21207001-1 TM08	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	4194879-1		4194880-1		4194881-1		4194882-1	
Analysis Date:	07/05/2012		07/05/2012		07/05/2012		07/05/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores								
Basidiospores			1	53	1	53	1	13
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown			1	13				
Other colorless								
Penicillium/Aspergillus types†	2	110					1	53
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes			2	27			1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13		13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	2+		2+		2+		2+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		110		93		53		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Larry Sandhu, Mr. Ken Tse
Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21207001-1 TM01OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California (n‡=14597)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	93	64	13	13	27	67	110	55
Bipolaris/Drechslera group	-	7	13	13	27	45	15	7	13	13	27	40	12
Chaetomium	13	8	13	13	27	40	26	8	13	13	27	44	19
Cladosporium	2,600	160	270	690	1,500	2,300	98	110	210	640	1,700	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Epicoccum	13	8	13	13	40	53	25	8	13	13	33	53	19
Nigrospora	-	7	13	13	20	40	6	7	13	13	27	53	8
Penicillium/Aspergillus types	850	53	100	210	590	960	86	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	38	67	5	7	13	13	33	67	4
Torula	13	8	13	13	40	60	16	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	13	40	80	210	370	68	25	53	110	350	690	72
Basidiospores	370	33	53	160	370	640	90	53	80	270	1,000	2,300	94
Rusts	27	13	13	13	50	80	30	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	720	13	13	42	120	200	73	13	13	40	110	200	68
§ TOTAL SPORES/m3	4,800												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Larry Sandhu, Mr. Ken Tse
Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21207001-1 TM01OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Ascospores	160	13 - 190 - 5,400	77
Basidiospores	370	13 - 430 - 21,000	92
Chaetomium	13	7 - 13 - 150	10
Cladosporium	2,600	27 - 480 - 10,000	91
Epicoccum	13	7 - 20 - 340	26
Penicillium/Aspergillus types	850	13 - 160 - 2,600	70
Rusts	27	7 - 20 - 350	21
Smuts, Periconia, Myxomycetes	720	7 - 47 - 960	65
Torula	13	7 - 13 - 170	10
Total	4,800		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21207001-1 TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

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Date of Sampling: 07-02-2012
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.6292 Critical value: 0.5833 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	53
Total	110

Location: 21207001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.7000 Critical value: 0.5833 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Cladosporium	53
Smuts, Periconia, Myxomycetes	27
Total	130

Location: 21207001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.5917 Critical value: 0.5833 Outside Similar: Yes	Score: 114 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Penicillium/Aspergillus types	110
Total	110

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Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.3333	dF: 10 Result: 0.2242 Critical value: 0.5515 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Other brown	13
Smuts, Periconia, Myxomycetes	27
Total	93

Location: 21207001-1 TM07

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.4417 Critical value: 0.5833 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	53
Total	53

Location: 21207001-1 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 6 Result: 4.5429 Critical value: 12.5916 Inside Similar: Yes	Result: 0.5000	dF: 9 Result: 0.6417 Critical value: 0.5833 Outside Similar: Yes	Score: 106 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	13
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	13
Total	80

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Larry Sandhu, Mr. Ken Tse
Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21207001-1 TM01OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		ND	< 13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		1	13
Cladosporium		49	2,600
Curvularia		ND	< 13
Epicoccum		1	13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		16	850
Stachybotrys		ND	< 13
Torula		1	13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		7	370
Rusts		2	27
Smuts, Periconia, Myxomycetes		54	720
Total			**4,787**

Location: 21207001-1 TM02

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300 Score
Generally able to grow indoors*				
Alternaria		ND	< 13	100
Bipolaris/Drechslera group		ND	< 13	100
Chaetomium		ND	< 13	100
Cladosporium		ND	< 13	100
Curvularia		ND	< 13	100
Nigrospora		ND	< 13	100
Penicillium/Aspergillus types†		ND	< 13	100
Stachybotrys		ND	< 13	100
Torula		ND	< 13	100
Seldom found growing indoors**				
Ascospores		ND	< 13	100
Basidiospores		ND	< 13	100
Rusts		ND	< 13	100
Smuts, Periconia, Myxomycetes		ND	< 13	100
Total			**N/A**	**Final MoldSCORE** **100**

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Date of Report: 07-05-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM03

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**105**

Location: 21207001-1 TM04

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		101
Total			**133**	**Final MoldSCORE**	**105**

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Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM05

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		2	110		115
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**107**	**Final MoldSCORE**	**115**

Location: 21207001-1 TM06

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		103
Total			**93**	**Final MoldSCORE**	**108**

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Re: 21207001-1; Random Sampling

Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM07

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**105**

Location: 21207001-1 TM08

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		106
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	13		101
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		100
Total			**80**	**Final MoldSCORE**	**106**

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Date of Sampling: 07-02-2012
Date of Receipt: 07-03-2012
Date of Report: 07-05-2012

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21207001-1
EML ID: 945851

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 07-17-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1-TM09Out		21207001-1-TM10		21207001-1-TM11	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4214228-1		4214229-1		4214230-1	
Analysis Date:	07/17/2012		07/17/2012		07/17/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27				
Ascospores	2	110				
Basidiospores	14	750			1	53
Bipolaris/Drechslera group	1	13				
Botrytis	2	27				
Chaetomium	2	27				
Cladosporium	23	1,200	3	160		
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	2	110				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	22	290			2	27
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		3+	
Hyphal fragments/m3	110		< 13		< 13	
Pollen/m3	27		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		2+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,600		160		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1-TM12		21207001-1-TM13		21207001-1-TM14	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4214231-1		4214232-1		4214233-1	
Analysis Date:	07/17/2012		07/17/2012		07/17/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores					1	53
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes			1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		3+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	1+		2+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		13		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21207001-1-TM09Out

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California (n‡=14597)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	67	93	64	13	13	27	67	110	55
Bipolaris/Drechslera group	13	7	13	13	27	45	15	7	13	13	27	40	12
Chaetomium	27	8	13	13	27	40	26	8	13	13	27	44	19
Cladosporium	1,200	160	270	690	1,500	2,300	98	110	210	640	1,700	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Nigrospora	-	7	13	13	20	40	6	7	13	13	27	53	8
Penicillium/Aspergillus types	110	53	100	210	590	960	86	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	38	67	5	7	13	13	33	67	4
Torula	-	8	13	13	40	60	16	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	110	13	40	80	210	370	68	25	53	110	350	690	72
Basidiospores	750	33	53	160	370	640	90	53	80	270	1,000	2,300	94
Botrytis	27	11	13	20	53	80	19	13	13	20	53	80	18
Rusts	-	13	13	13	50	80	30	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	290	13	13	42	120	200	73	13	13	40	110	200	68
§ TOTAL SPORES/m3	2,600												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21207001-1-TM09Out:

Species detected	Outdoor sample spores/m3 <100 1K 10K >100K	Typical outdoor ranges (North America)	Freq. %
Alternaria	27	7 - 33 - 520	47
Ascospores	110	13 - 190 - 5,400	77
Basidiospores	750	13 - 430 - 21,000	92
Bipolaris/Drechslera group	13	7 - 13 - 240	17
Botrytis	27	7 - 17 - 240	7
Chaetomium	27	7 - 13 - 150	10
Cladosporium	1,200	27 - 480 - 10,000	91
Penicillium/Aspergillus types	110	13 - 160 - 2,600	70
Smuts, Periconia, Myxomycetes	290	7 - 47 - 960	65
Total	2,600		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21207001-1-TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 4 Result: 2.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.6708 Critical value: 0.5833 Outside Similar: Yes	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	160
Total	160

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Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1-TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 4 Result: 2.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.6375 Critical value: 0.5833 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Smuts, Periconia, Myxomycetes	27
Total	80

Location: 21207001-1-TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 2.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21207001-1-TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 2.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.5208 Critical value: 0.5833 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	13
Total	13

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Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1-TM14

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 2.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2000	dF: 9 Result: 0.5958 Critical value: 0.5833 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Basidiospores	53
Total	53

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21207001-1-TM09Out

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		2	27
Bipolaris/Drechslera group		1	13
Chaetomium		2	27
Cladosporium		23	1,200
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		2	110
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		2	110
Basidiospores		14	750
Botrytis		2	27
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		22	290
Total			**2,573**

Location: 21207001-1-TM10

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300 Score
Generally able to grow indoors*				
Alternaria		ND	< 13	100
Bipolaris/Drechslera group		ND	< 13	100
Chaetomium		ND	< 13	100
Cladosporium		3	160	105
Curvularia		ND	< 13	100
Nigrospora		ND	< 13	100
Penicillium/Aspergillus types†		ND	< 13	100
Stachybotrys		ND	< 13	100
Torula		ND	< 13	100
Seldom found growing indoors**				
Ascospores		ND	< 13	100
Basidiospores		ND	< 13	100
Rusts		ND	< 13	100
Smuts, Periconia, Myxomycetes		ND	< 13	100
Total			**160**	**Final MoldSCORE** **105**

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Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1-TM11

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		104
Total			**80**	**Final MoldSCORE**	**104**

Location: 21207001-1-TM12

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1-TM13

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**13**	**Final MoldSCORE**	**102**

Location: 21207001-1-TM14

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**104**

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-16-2012
Date of Receipt: 07-16-2012
Date of Report: 07-17-2012

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21207001-1
EML ID: 949085

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 07-24-2012 and 07-25-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

Document Number: 200091 - Revision Number: 5

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Client: Hygiene Technologies International, Inc.: Northern California
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Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1 TM15 OUT		21207001-1 TM16		21207001-1 TM17	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4230097-1		4230098-1		4230099-1	
Analysis Date:	07/24/2012		07/25/2012		07/24/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	2	27	1	13		
Ascospores	2	110			1	53
Basidiospores	8	430	1	53		
Bipolaris/Drechslera group	1	13				
Chaetomium						
Cladosporium	34	1,800				
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	10	530				
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	27	360	8	110		
Stachybotrys						
Stemphylium						
Torula	8	110				
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	93		13		< 13	
Pollen/m3	< 13		27		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		3,400		170		53

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1 TM18		21207001-1 TM19		21207001-1 TM20	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4230100-1		4230101-1		4230102-1	
Analysis Date:	07/24/2012		07/24/2012		07/24/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			1	13		
Ascospores						
Basidiospores	1	53				
Bipolaris/Drechslera group						
Chaetomium						
Cladosporium			1	53	1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	6	80	13	170	2	27
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		1+	
Hyphal fragments/m3	< 13		13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		130		240		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21207001-1 TM15 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California (n‡=14597)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	27	13	13	27	67	93	64	13	13	27	67	110	55
Bipolaris/Drechslera group	13	7	13	13	27	45	15	7	13	13	27	40	12
Chaetomium	-	8	13	13	27	40	26	8	13	13	27	44	19
Cladosporium	1,800	160	270	690	1,500	2,300	98	110	210	640	1,700	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Nigrospora	-	7	13	13	20	40	6	7	13	13	27	53	8
Penicillium/Aspergillus types	530	53	100	210	590	960	86	53	110	210	590	1,000	85
Stachybotrys	-	7	13	13	38	67	5	7	13	13	33	67	4
Torula	110	8	13	13	40	60	16	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	110	13	40	80	210	370	68	25	53	110	350	690	72
Basidiospores	430	33	53	160	370	640	90	53	80	270	1,000	2,300	94
Rusts	-	13	13	13	50	80	30	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	360	13	13	42	120	200	73	13	13	40	110	200	68
§ TOTAL SPORES/m3	3,400												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21207001-1 TM15 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	27	7 - 33 - 520	47
Ascospores	110	13 - 190 - 5,400	77
Basidiospores	430	13 - 430 - 21,000	92
Bipolaris/Drechslera group	13	7 - 13 - 240	17
Cladosporium	1,800	27 - 480 - 10,000	91
Penicillium/Aspergillus types	530	13 - 160 - 2,600	70
Smuts, Periconia, Myxomycetes	360	7 - 47 - 960	65
Torula	110	7 - 13 - 170	10
Total	3,400		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21207001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.1488 Critical value: 0.6190 Outside Similar: No	Score: 122 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Basidiospores	53
Smuts, Periconia, Myxomycetes	110
Total	170

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Re: 21207001-1

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.2440 Critical value: 0.6190 Outside Similar: No	Score: 100 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Ascospores				53
Total				53

Location: 21207001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.3929 Critical value: 0.6190 Outside Similar: No	Score: 113 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Basidiospores				53
Smuts, Periconia, Myxomycetes				80
Total				130

Location: 21207001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: 0.3393 Critical value: 0.6190 Outside Similar: No	Score: 133 Result: Low

Species Detected	Spores/m3 <100	1K	10K	>100K
Alternaria				13
Cladosporium				53
Smuts, Periconia, Myxomycetes				170
Total				240

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Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1 TM20

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 2.6000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.6310 Critical value: 0.6190 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Smuts, Periconia, Myxomycetes	27
Total	80

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21207001-1 TM15 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		2	27
Bipolaris/Drechslera group		1	13
Chaetomium		ND	< 13
Cladosporium		34	1,800
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		10	530
Stachybotrys		ND	< 13
Torula		8	110
Seldom found growing indoors**			
Ascospores		2	110
Basidiospores		8	430
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		27	360
Total			**3,387**

Location: 21207001-1 TM16

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		103
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		8	110		118
Total			**173**	**Final MoldSCORE**	**123**

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Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM17

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		1	53		120
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**100**

Location: 21207001-1 TM18

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		104
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		6	80		113
Total			**133**	**Final MoldSCORE**	**113**

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C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM19

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		104
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		13	170		129
Total			**240**	**Final MoldSCORE**	**132**

Location: 21207001-1 TM20

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		104
Total			**80**	**Final MoldSCORE**	**104**

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1

Date of Sampling: 07-23-2012
Date of Receipt: 07-24-2012
Date of Report: 07-25-2012

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Larry Sandhu
Hygiene Technologies International, Inc.: Northern California
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21207001-1; Random Sampling
EML ID: 951956

Approved by:

Lab Manager
Malcolm Moody

Dates of Analysis:
Spore trap analysis: 08-01-2012

Service SOPs: Spore trap analysis (1038)
AIHA accredited service

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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1; Random Sampling

Date of Sampling: 07-31-2012
Date of Receipt: 07-31-2012
Date of Report: 08-01-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1 TM21out		21207001-1 TM22		21207001-1 TM23	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4243335-1		4243336-1		4243337-1	
Analysis Date:	08/01/2012		08/01/2012		08/01/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	5	67				
Ascospores	4	210				
Basidiospores	7	370	2	110		
Chaetomium	17	230				
Cladosporium	52	2,800			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	6	320				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	23	310	10	130	2	27
Stachybotrys	1	13				
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	3+		2+		2+	
Hyphal fragments/m3	230		< 13		27	
Pollen/m3	< 13		13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		4,300		240		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
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Client: Hygiene Technologies International, Inc.: Northern California
C/O: Mr. Kenny Hsi, Mr. Larry Sandhu
Re: 21207001-1; Random Sampling

Date of Sampling: 07-31-2012
Date of Receipt: 07-31-2012
Date of Report: 08-01-2012

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21207001-1 TM24		21207001-1 TM25		21207001-1 TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	4243338-1		4243339-1		4243340-1	
Analysis Date:	08/01/2012		08/01/2012		08/01/2012	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium	1	53			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces					1	13
Rusts			1	13		
Smuts, Periconia, Myxomycetes	2	27	3	40		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13	
Skin cells (1-4+)	1+		< 1+		< 1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		80		53		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 07-31-2012
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Date of Report: 08-01-2012

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21207001-1 TM21out

Fungi Identified	Outdoor data	Typical Outdoor Data for: July in California (n‡=14597)†						Typical Outdoor Data for: The entire year in California (n‡=175031)†					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	67	13	13	27	67	93	64	13	13	27	67	110	55
Bipolaris/Drechslera group	-	7	13	13	27	45	15	7	13	13	27	40	12
Chaetomium	230	8	13	13	27	40	26	8	13	13	27	44	19
Cladosporium	2,800	160	270	690	1,500	2,300	98	110	210	640	1,700	2,800	97
Curvularia	-	7	13	13	27	53	8	7	13	13	27	53	6
Nigrospora	-	7	13	13	20	40	6	7	13	13	27	53	8
Penicillium/Aspergillus types	320	53	100	210	590	960	86	53	110	210	590	1,000	85
Stachybotrys	13	7	13	13	38	67	5	7	13	13	33	67	4
Torula	-	8	13	13	40	60	16	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	210	13	40	80	210	370	68	25	53	110	350	690	72
Basidiospores	370	33	53	160	370	640	90	53	80	270	1,000	2,300	94
Rusts	13	13	13	13	50	80	30	13	13	13	53	80	27
Smuts, Periconia, Myxomycetes	310	13	13	42	120	200	73	13	13	40	110	200	68
§ TOTAL SPORES/m3	4,300												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.: Northern California
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Re: 21207001-1; Random Sampling

Date of Sampling: 07-31-2012
Date of Receipt: 07-31-2012
Date of Report: 08-01-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21207001-1 TM21out:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	67	7 - 33 - 520	47
Ascospores	210	13 - 190 - 5,400	77
Basidiospores	370	13 - 430 - 21,000	92
Chaetomium	230	7 - 13 - 150	10
Cladosporium	2,800	27 - 480 - 10,000	91
Penicillium/Aspergillus types	320	13 - 160 - 2,600	70
Rusts	13	7 - 20 - 350	21
Smuts, Periconia, Myxomycetes	310	7 - 47 - 960	65
Stachybotrys	13	7 - 13 - 530	3
Total	4,300		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21207001-1 TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 4 Result: 0.3600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.5208 Critical value: 0.5833 Outside Similar: No	Score: 122 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Basidiospores	110
Smuts, Periconia, Myxomycetes	130
Total	240

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Date of Sampling: 07-31-2012
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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1 TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.3600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.6375 Critical value: 0.5833 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Smuts, Periconia, Myxomycetes	27
Total	80

Location: 21207001-1 TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.3600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.6375 Critical value: 0.5833 Outside Similar: Yes	Score: 104 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Smuts, Periconia, Myxomycetes	27
Total	80

Location: 21207001-1 TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.3600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.0875 Critical value: 0.5833 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Rusts	13
Smuts, Periconia, Myxomycetes	40
Total	53

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Date of Report: 08-01-2012

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21207001-1 TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 0.3600 Critical value: 9.4877 Inside Similar: Yes	Result: 0.1818	dF: 10 Result: 0.3121 Critical value: 0.5515 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Pithomyces	13
Total	67

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Date of Sampling: 07-31-2012
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Date of Report: 08-01-2012

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21207001-1 TM21out

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		5	67
Bipolaris/Drechslera group		ND	< 13
Chaetomium		17	230
Cladosporium		52	2,800
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		6	320
Stachybotrys		1	13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		4	210
Basidiospores		7	370
Rusts		1	13
Smuts, Periconia, Myxomycetes		23	310
Total			**4,307**

Location: 21207001-1 TM22

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		2	110		109
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		10	130		122
Total			**240**	**Final MoldSCORE**	**122**

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MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM23

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		104
Total			**80**	**Final MoldSCORE**	**104**

Location: 21207001-1 TM24

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		104
Total			**80**	**Final MoldSCORE**	**104**

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Date of Report: 08-01-2012

MoldSCORE™: Spore Trap Report

Location: 21207001-1 TM25

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		1	13		105
Smuts, Periconia, Myxomycetes		3	40		107
Total			**53**	**Final MoldSCORE**	**107**

Location: 21207001-1 TM26

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Pithomyces		1	13		105
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**105**

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Re: 21207001-1; Random Sampling

Date of Sampling: 07-31-2012
Date of Receipt: 07-31-2012
Date of Report: 08-01-2012

MoldSCORE™: Spore Trap Report

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

HYGIENE TECH
Hygiene Technologies International, Inc.
000941320
no Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/Purchase Order: 2120700l-1 Date Submitted: 7/2/12

Project Contact: L Sahdha, KTSE Turnaround Required: Standard

Lab Destination: EMLab Lab Contact: Sample Rec

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2120700l-1TM01OUT	75L	Air Cell	Spore Trap Analysis
TM02			
TM03			
TM04			
TM05			
TM06			
TM07			
TM08			

Special Instructions: Random Sampling

1. Sampled by: KENTSE 7/2/12 11:08AM Received by: [signature] on 7/2/12 @ 13:
2. Relinquished by: KENTSE 7/2/12 13:00 Received by: [signature] 7/3/12 @ 925
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:

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3625 Del Amo Bl...
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00094585 1

Request For Analysis

Project Number/Purchase Order: ~~[redacted]~~ 21207001-1 Date Submitted: 7/16/12

Project Contact: L Sandhu / K. Hsi Turnaround Required: Normal

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21207001-1 TM9out	75L	Aero-Cell	Spore Trap
TM10			
TM11			
TM12			
TM13			
TM14			

Special Instructions: Random Sampling (Round 2)

1. Sampled by: #Sandhu on 7/13/12 @ 16:06 Received by: [signature] 7-16-2012
2. Relinquished by: #Sandhu on 7/16/12 @ 12:30 Received by: _____ 12:30pm
3. Relinquished by: _____ Received by: _____

Please include signature, date, and time

Lab Use Only:

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000949085

Request For Analysis

Project Number/~~Purchase Order~~: 21207001-1 Date Submitted: 7/23/12

Project Contact: L. Sandhu/Kohsi Turnaround Required: Normal

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21207001-1 TM15OUT	75L	Air-o-Cell	Spore Trap Analysis
TM16			
TM17			
TM18			
TM19			
TM20			

~~Special Instructions~~: Random Sampling (3rd round)

1. **Sampled by:** Sandhu on 7/23/12 @ 18:46 **Received by:** 7/24/12 12:30
2. **Relinquished by:** Sandhu on 7/23/12 @ 18:00 **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH
Hygiene Technologies International, Inc.

000951956

3625 Del Amo Boulevard, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order:~~ 212070 01-1 Date Submitted: 7/31/12

Project Contact: Hamdan / Ichsi Turnaround Required: Normal

Lab Destination: EMLAB Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
212070 01-1 TM11 out	75L	DRS-C611	Spore Trap Analysis
TM22			
TM23			
TM24			
TM25			
TM26			

Special Instructions: Flori Random Sampling.

1. **Sampled by:** Hamdan on 7/31/12 @ 13:27 **Received by:**
2. **Relinquished by:** Hamdan on 7/31/12 @ 14:48 **Received by:**
3. **Relinquished by:** **Received by:** 7/31/12 1465

Please include signature, date, and time

Lab Use Only: